WHAT IS CLAIMED IS:

- 1. A receptacle type optical module comprising:
- a lead frame having a plurality of leads;
- a block mounted on said lead frame, said block having a through hole;
- a ferrule inserted and fixed in said through hole of said block, said ferrule having an optical fiber;
- a carrier mounted on said block, said carrier having a wiring pattern;
 - an optical element mounted on said carrier;
- a graded index lens fixed to an end face of said ferrule, said graded index lens having a spherical end face adjacent to said optical element; and
- a transparent resin for sealing an optical coupling portion between said optical element and said graded index lens.
- 2. A receptacle type optical module according to claim 1, wherein said block has an L-shape.
- 3. A receptacle type optical module according to claim 1, further comprising resin flow blocking means provided on said block.
- 4. A receptacle type optical module according to claim 3, wherein said rein flow blocking means is formed of a resin having a viscosity higher than that of said

transparent resin.

- 5. A receptacle type optical module comprising:
- a lead frame having a plurality of leads;
- an L-shaped block mounted on said lead frame, said L-shaped block having a through hole;
- a ferrule inserted and fixed in said through hole of said L-shaped block, said ferrule having an optical fiber;
- a carrier mounted on said L-shaped block, said carrier having a wiring pattern;

an optical element mounted on said carrier;

- a graded index lens fixed to an end face of said ferrule, said graded index lens having a spherical end face adjacent to said optical element;
- a transparent resin for sealing an optical coupling portion between said optical element and said graded index lens; and
- a resin molded package for encapsulating all of said lead frame, said L-shaped block, said ferrule, said carrier, and said optical element except a part of said lead frame and a part of said ferrule.
- 6. A production method for a receptacle type optical module, comprising the steps of:

mounting an optical element on a carrier having a

wiring pattern;

connecting said wiring pattern of said carrier and said optical element by means of a first wire;

performing a screening test for said optical
element;

preparing an L-shaped block having a through hole;

press-fitting a ferrule having an optical fiber

into said through hole of said L-shaped block;

mounting said carrier on said L-shaped block in the condition where said optical element is mounted on said carrier;

bonding a graded index lens to an end face of said ferrule after aligning said graded index lens to said optical fiber and said optical element;

mounting said L-shaped block on a lead frame;

connecting said wiring pattern of said carrier and
said lead frame by means of a second wire;

sealing an optical coupling portion between said optical element and said graded index lens with a transparent resin; and

encapsulating all of said lead frame, said L-shaped block, said ferrule, said carrier, and said optical element except a part of said lead frame and a part of said ferrule in a resin molded package.

- 7. A production method according to claim 6, further comprising the step of cutting said lead frame after said encapsulating step to form a plurality of leads.
- 8. A production method according to claim 6, further comprising the step of applying a resin having a viscosity higher than that of said transparent resin onto said L-shaped block before said sealing step to form a dam for blocking the flow of said transparent resin.